

Course

- CS-E4730
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« 3. Week: Data & digital traces

Course materials

3.2 Exercise: Big data characteristics »

CS-E4730 / 3. Week: Data & digital traces / 3.1 Lecture questions

Lecture questions

In this exercise you will answer questions related to this week's lecture.

Note that you can submit the answer to each question only once. The questions are designed to be easy if you have followed the lecture. Note that the questions can vary slightly between students.

Points 10 / 10

My submissions 1 / 1

Deadline Friday, 17 March 2023, 19:00
To be submitted alone

Show model answer

The deadline for the assignment has passed (Wednesday, 29 March 2023, 19:00).

Big data for CSS research

Question 1 10 / 10

The primary difference between digital traces as CSS big data and other conventional social science data such as questionnaires, interviews and experiments is that digital traces are not created specifically for the purpose of research. Is this statement true or false?

- False
- True

Correct!

Submit

Points 10 / 10

My submissions 1 / 1

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Research suitability of big data

Question 1 10 / 10

What are the three big data characteristics which make it (generally) suitable for research purposes?

- Big, Sensitive, Nonreactive
- Big, Always on, Drifting
- Big, Nonreactive, Always on
- Big, Nonrepresentative, Nonreactive

Correct!

Submit

Points 10 / 10

My submissions 1 / 1

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Challenges of conventional social science data

Question 1 10 / 10

What are the problems with working with small sample sizes, typical of conventional data for social science research, such as questionnaires, interviews or experiments?

- Statistical significance and random fluctuations
- Might miss frequently occurring events
- All of the above
- None of the above

Correct!

Submit

Points 0 / 10

My submissions 1 / 1

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Non reactive datasets

Question 1 0 / 10

Which of the following datasets are likely to be non-reactive?

- Call records data
- Email records data
- Social media data
- All of the above
- None of the above

Incorrect

Submit

Points 10 / 10

My submissions 1 / 1

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Incomplete data

Question 1 10 / 10

We want to study the relationship between number of messages between two individuals and the strength of their social ties using mobile phone operation billing records for SMSes (similar to the call records data discussed in class). Which of the following data would be missing from the billing records but still be useful for the proposed study goal?

- Content of the messages
- Estimate of relationship in offline world
- Estimate of frequency of messages between the individuals on other messaging platforms such as Telegram or WhatsApp.
- All of the above
- None of the above

Correct!

Submit

Points 0 / 10

My submissions 1 / 1

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Drifting

Question 1 0 / 10

A ten-year longitudinal study of how different people use hashtags is likely to suffer from which of the following drifts?

- Population drift
- Behavioural drift
- System drift
- All of the above
- None of the above

Incorrect

Submit

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